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Customer No.: 31561 Application No.: 10/709,956 Docket No.: 13565-US-PA

AMEDMENTS

To the Claims:

1. (original) An earphone structure, comprising:

a case;

a main speaker and a plurality of sub-speakers, which are installed inside the case;

a composite chamber, wherein the sub-speakers are disposed on the composite chamber for forming a composite room, such that the sound wave generated by the sub-speakers forms a composite sound field, and the sound wave generated by the sub-speakers as well as the sound wave generated by the main speaker are propagated out of the earphone; and

a cover, wherein the cover and the case jointly cover the main speaker and the subspeakers for forming the earphone structure.

- 2. (original) The earphone structure of claim 1, wherein the sub-speakers comprise a first channel speaker and a second channel speaker, which are disposed on two opposite sides of the composite chamber.
- 3. (original) The earphone structure of claim 2, wherein a position where the first channel speaker is disposed at and a position where the second channel speaker is disposed at are not symmetrical.
- 4. (original) The earphone structure of claim 2, wherein the sub-speakers further comprises a subwoofer speaker.

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- 5. (original) The earphone structure of claim 4, wherein the subwoofer speaker is disposed on a back side of the composite chamber.
- 6. (original) The earphone structure of claim 1, wherein the composite chamber is a hollow column.

7-15. (canceled)

- 16. (original) The earphone structure of claim 1, wherein the earphone structure receives a signal which has been processed by a sound field simulation process for generating a simulation sound field by the sub-speakers and the main speaker inside the.
- 17. (original) The earphone structure of claim 16, wherein the sound field simulation process is designed based on a frequency-divided point of the sub-speakers.
- 18. (original) The earphone structure of claim 16, wherein the sound field simulation process is designed based on a frequency-divided point of the sub-speakers and a delay process.

19-54. (canceled)

55. (original) An earphone structure comprising a composite chamber and being disposed inside a case and a cover, wherein the case and the cover jointly cover the composite chamber for forming the earphone structure, and the composite chamber receives a plurality of sound source signals and forms a composite room, such that a composite sound field is formed by the sound source signals.

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56. (original) The earphone structure of claim 55, wherein the sound source signals at least comprise a first sound source signal and a second sound source signal, which are originated at opposite sides of the composite chamber, respectively.

- 57. (original) The earphone structure of claim 56, wherein a location where the first sound source signal is originated at and a location where the second sound source signal is originated at on the opposite sides of the composite chamber are not symmetrical.
- 58. (original) The earphone structure of claim 56, wherein the sound source signals further comprise at least a subwoofer sound source signal.
- 59. (original) The earphone structure of claim 58, wherein the subwoofer sound source signal is originated at a back side of the composite chamber.
- 60. (original) The earphone structure of claim 55, wherein the sound source signals are the signals which have been processed by a sound field simulation process for generating a simulation sound field in the composite chamber.
- 61. (original) The earphone structure of claim 60, wherein the sound field simulation process is designed based on a frequency-divided point of the sound source signals.
- 62. (original) The earphone structure of claim 60, wherein the sound field simulation process is designed based on a frequency-divided point of the sound source signals and a delay process.
- 63. (original) An earphone structure comprising a composite chamber and being installed inside a case and a cover, wherein the case and the cover jointly cover the

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composite chamber for forming the earphone structure, and the composite chamber receives a plurality of sound source entities and forms a composite room, such that a composite sound field is formed by the sound source entities.

- 64. (original) The earphone structure of claim 55, wherein the sound source entities at least comprise a first sound source signal and a second sound source signal, which are originated at both opposite sides of the composite chamber, respectively.
- 65. (original) The earphone structure of claim 64, wherein a position where the first sound source entity is originated at and a position where the second sound source entity is originated at both opposite sides of the composite chamber are not symmetrical.
- 66. (original) The earphone structure of claim 64, wherein the sound source entities further comprise at least a subwoofer sound source entity.
- 67. (original) The earphone structure of claim 66, wherein the subwoofer sound source entity is originated at a back side of the composite chamber.
- 68. (original) The earphone structure of claim 63, wherein the sound source entities are the signals which have been processed by a sound field simulation process for generating a simulation sound field in the composite chamber.
- 69. (original) The earphone structure of claim 68, wherein the sound field simulation process is designed based on a frequency-divided point of the sound source entities.

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70. (original) The earphone structure of claim 68, wherein the sound field simulation process is designed based on a frequency-divided point of the sound source entities and a delay process.